PATENT

Attorney Docket No.: MSU-08604

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of Dean DellaPenna, Li Tian and Joonyul Kim for Novel Carotenoid Hydroxylases for Use in Engineering Carotenoid Metabolism in Plants.

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the U.S. Postal Service on this date, January 2, 2004, in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EL 992 785 369 US, addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

1. Type Of Application

This new application is for a(n)

Original (nonprovisional)

2. Papers Enclosed That Are Required For Filing Date Under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 (Design) Application

Pages of Specification

5

Pages of Claims

1

Page of Abstract 42

Sheets of Informal Drawings

3. Declaration

×

Enclosed

X

Unexecuted.

Inventorship Statement

The inventorship for all the claims in this application is:

× the same

Language 5.

> × English

Fee Calculation (37 C.F.R. § 1.16)

× Regular application

CLAIMS AS FILED

Number Filed	Number Extra	Rate	Basic Fee - \$770.00 (37 C.F.R. § 1.16(a))
Total Claims (37 C.F.R. § 1.16(c))	32 - 20 =	12 × \$18.00 =	\$216.00
Independent Claims (37 C.F.R. § 1.16(b))	12 - 3 =	9 × \$86.00 =	\$774.00
Multiple Dependent Claim(s), if any (37 C.F.R. § 1.16(d))	+ \$290.00 =		\$0.00

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Verified Statement(s) that this is a filing by a small entity under 37 C.F.R. §§ 1.9 and 1.27.

Filing Fee Calculation (50% of above)

\$880.00

8. Fee Payment Being Made At This Time

Enclosed

basic filing fee

\$880.00

Total Fees Enclosed

\$880.00

9. Method of Payment of Fees

Check in the amount of \$880.00

10. Authorization To Charge Additional Fees and Credit Overpayment

The Commissioner is hereby authorized to charge any deficiency in the payment of the required fees, and/or credit any overpayment, to Deposit Account No.: 08-1290. An originally executed duplicate of this transmittal is enclosed for this purpose.

11. Power of Attorney by Assignee

Enclosed (unexecuted)

12. Return Receipt Postcard

Enclosed

Dated: January 2, 2004

J. Mitchell Jones Registration No.: 44,174

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Statement Where No Further Pages Added

This transmittal ends with this page.